

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings, and versions, of claims in the subject patent application.

1. (Currently Amended) A radar system comprising:
a head containing a radar transmitter and a radar receiver and configured to be closely associated with a radar antenna; and
a signal processing unit included with within said head for processing a received radar signal and for combining the received radar signal with data from at least one other source and configured to simultaneously process the received radar signal and output radar data in at least two different digital formats.
2. (Canceled)
3. (Previously Presented) A radar system as claimed in claim 1, also arranged to output a raw radar signal.
4. (Previously Presented) A radar system as claimed in claim 1, wherein the signal processing unit simultaneously outputs radar data for differing radar ranges.
5. (Previously Presented) A radar system as claimed in claim 1, wherein the signal processing unit is controllable by digital input signals.
6. (Previously Presented) A radar system as claimed in claim 1, wherein the signal processing unit receives control signals for the radar receiver and the radar transmitter.
7. (Canceled)

8. (Previously Presented) A radar system as claimed in claim 1, wherein a north heading signal is combined with the received radar signals to allow synchrony with other data feeds.

9. (Canceled)

10. (Previously Presented) A radar system as claimed in claim 1, wherein all signal processing is carried out digitally.

11. (Previously Presented) A radar system as claimed in claim 1, wherein the radar transmitter is controllable by digital signals from the signal processing unit.

12. (Previously Presented) A radar system as claimed in claim 1, wherein the output data digital formats are to a standard specification.

13. (Previously Presented) A radar system as claimed in claim 1, wherein the output data feeds are encoded in USB, Firewire, Bluetooth or Ethernet protocol.

14. (Canceled)

15. (Previously Presented) A radar system as claimed in claim 1, wherein the output data feeds are distributed wirelessly.

16. (Previously Presented) A radar system as claimed in claim 1, in combination with a digital display unit which facilitates selection of one or more of the output data feeds from those provided by the radar system.

17. (Previously Presented) A radar system as claimed in claim 1, in combination with a digital display unit wherein the digital display unit has inputs allowing remote control of the radar transmitter, the receiver or the signal processing unit.

18. (Previously Presented) A radar system according to claim 1, wherein said data from at least one other source includes GPS data.

19. (Previously Presented) A radar system according to claim 1, wherein said data from at least one other source is combined with the radar data by multiplexing.

20. (Previously Presented) A radar system according to claim 1, wherein said output radar data in at least two digital formats comprises any two or more of a decluttered signal, a moving target signal, a range ring signal, and a map signal.